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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/792,288	03/03/2004	Thomas W. Wideman	FPY-089.01	3160
25181 75	90 05/16/2006		EXAM	INER
FOLEY HOA	G, LLP		NAKARANI, E	HIRAJLAL S
PATENT GROUP, WORLD TRADE CENTER WEST 155 SEAPORT BLVD			ART UNIT	PAPER NUMBER
BOSTON, MA 02110			1773	
•			DATE MAILED: 05/16/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/792,288	WIDEMAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	D. S. Nakarani	1773				
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the course the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 28 I	February 2006.					
2a) This action is <b>FINAL</b> . 2b) ☑ Thi	· · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.						
4a) Of the above claim(s) <u>26-28</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-25</u> is/are rejected.	☑ Claim(s) <u>1-25</u> is/are rejected.					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examin	er.					
10)⊠ The drawing(s) filed on <u>03 March 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	ce Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
<ol> <li>Copies of the certified copies of the price</li> <li>application from the International Burea</li> </ol>	·	ved in this National Stage				
* See the attached detailed Office action for a lis		ved				
	to the continue copies that recor	, o <u>u</u> .				
Attachment(s)	□	(DTO 440)				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 8/25/2004.</li> </ol>	5) Notice of Informal 6) Other:	Patent Application (PTO-152)				
Faper No(s)/Mail Date <u>0/23/2004</u> .	o) oner					

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## **DETAILED ACTION**

1. Applicant's election with traverse of Group I, claims 1-25, in the reply filed on February 28, 2006 is acknowledged. The traversal is on the ground(s) that examination of claims simultaneously would place no undue burden on the Examiner, as examination of claims 26-28 necessarily entails a search of the subject matter of claims 1-25. This is not found persuasive because the examination of method claims 26-28 requires search in class 156 and does not require search in class 428 while the invention of Group I, claims 1-25, does not require search in class 156. Therefore the examination of both inventions simultaneously would place undue burden on the Examiner.

The requirement is still deemed proper and is therefore made FINAL.

- 2. Claims 26-28 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on February 28, 2006.
- 3. The disclosure is objected to because of the following informalities: the specification as filed has numerous errors or inconsistencies. As for example the structure of silicon modified polyolefin given in paragraph 0059 appears to require R<sub>1</sub> either chemical bond or bivalent organic or inorganic moiety. The R<sub>1</sub> specified in paragraph 0062 includes monovalent radical or element such as alkyl, alkenyl, alkynyl,

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alkoxy, hydroxyl, hydrogen etc. In paragraph 0033, the "term silyl means –SiR<sub>3</sub> where R here can be H, C, O, Si, halogen or heteroatom" cannot be understood since as per chemical dictionary the term "silyl" means silicyl. The radical –SiH<sub>3</sub>, analogous to the methyl group –CH<sub>3</sub> (See page 533 of Grant & Hackh's Chemical Dictionary (Copy enclosed)). Therefore when R is other than H, the term silyl cannot be understood. Applicants are strongly urged to review entire specification for additional inconsistencies and correct as necessary **without** introducing new matter.

Appropriate correction is required.

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 2-23 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 2 and 3, the phrases "organic or inorganic moiety", "organic moiety" and "inorganic moiety" renders claims indefinite. It is not clear what is meant by claimed moiety? The claimed moiety is bivalent or monovalent? Clarification and/or correction requested. The term "inorganic moiety" neither defined nor exemplified in the specification. Therefore cannot be understood. As per structural formula in claims 2 and 3, R<sub>1</sub> and R<sub>2</sub> appear to be either chemical bond or bivalent organic moiety. However in claims 7, 8, 10, 18 and 21, disclosed species includes monovalent radicals such as

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alkyl, alkenyl, alkynyl, hydroxyl etc. Therefore cannot be understood. Furthermore, the X<sub>1</sub> in the structural formulae specified as being "organic or inorganic moiety" which cannot be understood. Does this moiety require to be reactive or non reactive.

Clarification and/or correction requested.

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 7. Claims 1, 24 and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Botros (U. S. Patent 6,894,115 B2).

Botros discloses a pipe comprising PE (polyethylene layer)/adhesive layer/aluminum (metal) layer/adhesive layer/ PEX (cross-linked polyethylene layer). The aluminum layer is considered as non-olefin layer. The adhesive layer comprises polyolefin e.g. high density polyethylene (HDPE) grafted with vinyl trimethoxy silane (Col. 7, lines 50-63, col. 8, lines 10-65 and col. 5, line 59 to col.6, line 31). The in above

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mentioned pipe structure portion "PEX" is considered as polyolefin layer and portion "PE/adhesive layer/ aluminum layer" considered as composite layer of claim 1.

- 8. Receipt of Information Disclosure Statement filed August 25, 2004 is acknowledged. All documents, AA-AL, recited on PTOL 1449 have been considered. All recited documents, AA-AI and AL, except documents AJ and AK, have been made of record. Documents AJ and AK have been crossed-out since these documents lacks publication date. These documents AJ and AK will not be listed on the face of patent issued from this application. If applicants are desirous to list these documents on patent issued from this application, documents AJ and AK should be provided showing publication date with PTOL 1449.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. S. Nakarani whose telephone number is (571) 272-1512. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571) 272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. S. Nakarani Primary Examiner Art Unit 1773

DSN May 12, 2006.